

Title (en)  
CLUTCH ACTUATION DEVICE

Title (de)  
KUPPLUNGSBETÄTIGUNGSVORRICHTUNG

Title (fr)  
DISPOSITIF DE COMMANDE EMBRAYAGE

Publication  
**EP 3224495 A1 20171004 (DE)**

Application  
**EP 15808338 A 20151117**

Priority  
• DE 102014224376 A 20141128  
• DE 2015200506 W 20151117

Abstract (en)  
[origin: WO2016082828A1] The invention relates to a clutch actuation device (1), in particular a disengagement system for a friction clutch (41) of a motor vehicle (47), comprising a master cylinder (2), a slave cylinder (3), and an actuator (4), via which the master cylinder (2) and the slave cylinder (3) are connected by means of a pressure line (5, 21, 23), wherein the actuator (4) has a shaft (8) that can be moved in an axial direction (7, 27, 31) by a motor (6), the shaft having at least two pistons (9, 10) movably arranged thereon, which can be moved in the axial direction (7) in a common cylinder (11), wherein a first pressure chamber (12) is arranged between the first piston (9) and the second piston (10) and a second pressure chamber (13) is arranged between the second piston (10) and an end wall (14) of the cylinder (11); wherein a first spring (15) connects the first piston (9) and a first stop (16) on the shaft (8) and a second spring (17) connects the second piston (10) to a second stop (18) on the end wall (14), wherein the second spring (17) moves the second piston (10) against a third stop (19) on the shaft (8); wherein a first connection (20) for a first pressure line (21) to the master cylinder (2) leads into the first pressure chamber (12) and a second connection (22) for a second pressure line (23) to the slave cylinder (3) leads into the second pressure chamber (13) in a region (24) that does not form a sealing surface (25) for the second piston (10); wherein a first bypass (26) is provided between the first pressure chamber (12) and the second pressure chamber (13), by means of which first bypass a fluidic connection of the master cylinder (2) and the slave cylinder (3) is possible, wherein the first bypass (26) can be closed by moving the shaft (8) and the third stop (19) and thus the second piston (10) in a first direction (27).

IPC 8 full level  
**F16D 25/00** (2006.01); **F16D 25/08** (2006.01); **F16D 48/02** (2006.01)

CPC (source: CN EP)  
**F16D 25/08** (2013.01 - EP); **F16D 25/088** (2013.01 - CN); **F16D 48/02** (2013.01 - CN EP); **F16D 2025/081** (2013.01 - CN EP); **F16D 2048/0209** (2013.01 - CN); **F16D 2048/0212** (2013.01 - EP); **F16D 2048/0284** (2013.01 - CN)

Citation (search report)  
See references of WO 2016082828A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**DE 102014224376 A1 20160602**; CN 107110249 A 20170829; CN 107110249 B 20190621; DE 112015005372 A5 20170803; EP 3224495 A1 20171004; EP 3224495 B1 20181003; WO 2016082828 A1 20160602

DOCDB simple family (application)  
**DE 102014224376 A 20141128**; CN 201580062201 A 20151117; DE 112015005372 T 20151117; DE 2015200506 W 20151117; EP 15808338 A 20151117